

1. Requirement Statement: Research and development into new method of computing daily potential evaporation for operational forecasting.
2. Background. With the implementation of ASOS, the estimates of net solar radiation derived from manual sky cover measurements are disappearing. Without these estimates, daily values of potential evaporation cannot be generated.

Research and Development Project	Project Justification		
	Service Benefit	Science	Other
New method for computing daily Potential Evaporation	1. Loss of service: With ASOS, no effective way to estimate net solar radiation due to loss of sky cover measurements. Biased PE estimates are likely being used in forecasts. 2. Benefit to: All RFCs. 3. RFC Requests: a. WGRFC: since 1995 b. MARFC: 3/20/1997 memo	Seasonal variations in PE can have significant effects on hydrograph simulation	Existing DMIP energy forcing data sets could be used to develop/test new PE procedures.

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